

GeDiPNet Shared-Gene Disease Pairs

Similarity: Jaccard index on shared curated genes (disease_gdp). Significance: upper-tail hypergeometric test ($P(X \geq k)$), Benjamini-Hochberg FDR-corrected across all tested pairs. Corroborated Shared Genes: count of shared genes backed by ≥ 2 distinct disease_gdp.main_source values combined across both diseases (e.g. GWAS-backed for one, ClinVar-backed for the other still counts); Shared Gene Names lists each gene's own source count in parentheses. Overlap Coefficient: shared genes / MIN(each disease's own total gene count) -- complements the Jaccard-based Similarity Score by showing how much of the SMALLER disease's entire known gene-set is covered by this pair, which Jaccard (dividing by the union) can understate. Shared Cluster: cluster id if both diseases fall in the same label-propagation cluster (scripts/build_disease_clusters.php), blank otherwise. See scripts/build_related.php on gedipnet.bicnirrh.res.in. Data as of: 2026-10-10 03:00:13. Filters applied: disease name contains "neurodevelopmental disorder with hypotonia and variable intellectual and behavioral abnormalities" (5 matching pairs). · Rows: 5 · Generated: 2026-10-10 14:15:55

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Cardioembolic stroke	neurodevelopmental disorder with hypotonia and variable intellectual and behavioral abnormalities	1	1	POLR2A (2)	0.00980	1.00000	6.559e-3	7.816e-3	
Developmental disability	neurodevelopmental disorder with hypotonia and variable intellectual and behavioral abnormalities	1	1	POLR2A (2)	0.00694	1.00000	9.287e-3	1.059e-2	
neurodevelopmental disorder with hypotonia and variable intellectual and behavioral abnormalities	Uterine fibroid	1	1	POLR2A (2)	0.00326	1.00000	1.987e-2	2.162e-2	
Endometriosis	neurodevelopmental disorder with hypotonia and variable intellectual and behavioral abnormalities	1	1	POLR2A (2)	0.00265	1.00000	2.442e-2	2.615e-2	
Migraine	neurodevelopmental disorder with hypotonia and variable intellectual and behavioral abnormalities	1	1	POLR2A (2)	0.00247	1.00000	2.624e-2	2.802e-2	